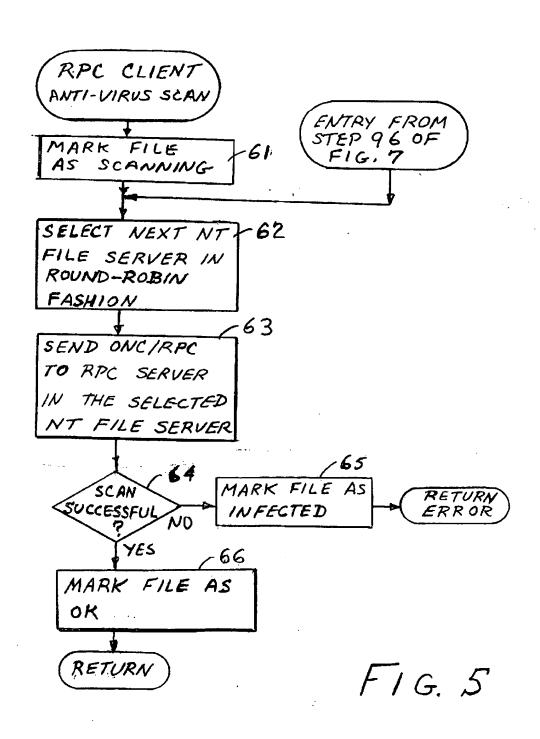
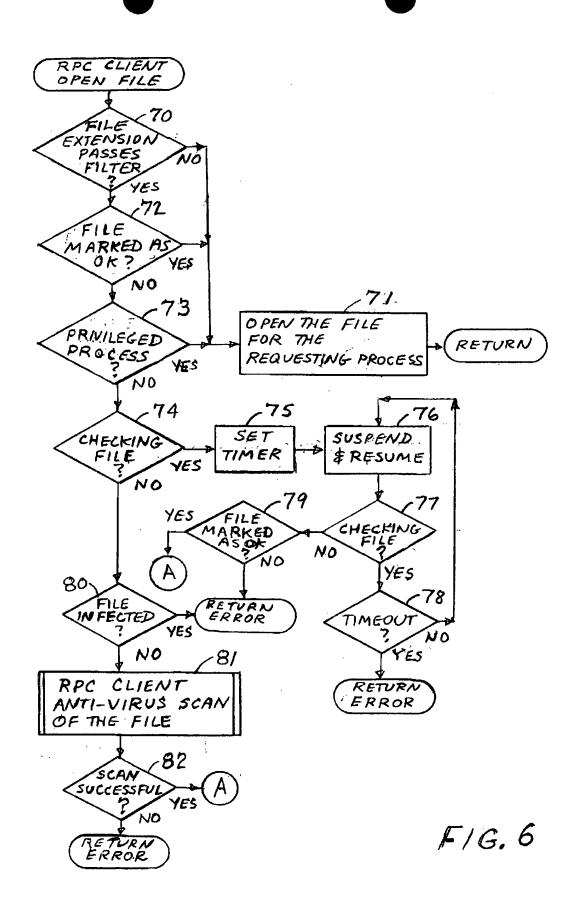


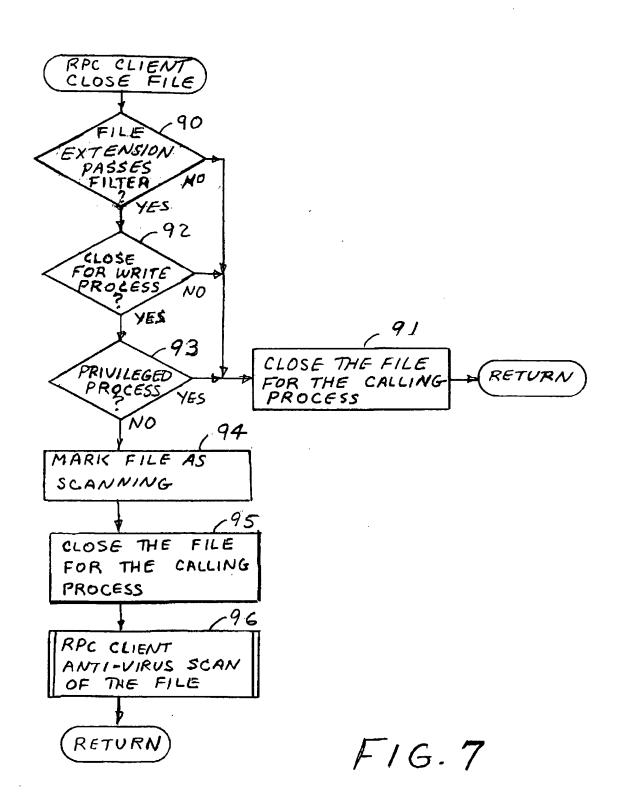
FIG. 3

		65
FILE ATTRIBUTES FOR VIRUS CHECKING		
BIT Ø	BIT 1	STATUS
<i>O</i>	0	NOT CHECKED
0	/	CHECKING
1	0	CHECKED - OK
1	1	INFECTED

FIG. 4







NT FILE SERVER
PROCESSING OF ONC/RPC
FROM RPC CLIENT FOR
VIRUS CHECKING

-10/

I/O MANAGER ROUTES
ONC/RPC TO RPC SERVER
FOR VIRUS
CHECKING IN USER MODE

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RPC SERVER SENDS IOCTL TO VIRUS CHECKER DRIVER IN KERNEL MODE

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VIRUS CHECKER
INITIATOR DRIVER SENDS
A FILE OPENING CALL
TO THE I/O MANAGER

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I/O MANAGER INTERPRETS
THE FILE OPENING CALL
AS A FILE OPENING
EVENT AND REPORTS
THE EVENT TO THE
CONVENTIONAL
VIRUS CHECKER
PROGRAM EXECUTING
IN USER MODE

-105

THE CONVENTIONAL
VIRUS CHECKER
PROGRAM READS FILE
DATA FROM THE FILE
IN THE NETWORK FILE
SERVER INTO RAM OF THE
FILE SERVER, AND
SCANS THE FILE DATA IN
THE RAM TO CHECK
FOR VIRUSES

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I/O MANAGER RETURNS
RESPONSE OF THE
CONVENTIONAL
VIRUS CHECKER
PROGRAM TO THE
VIRUS CHECKER
INITIATOR DRIVER

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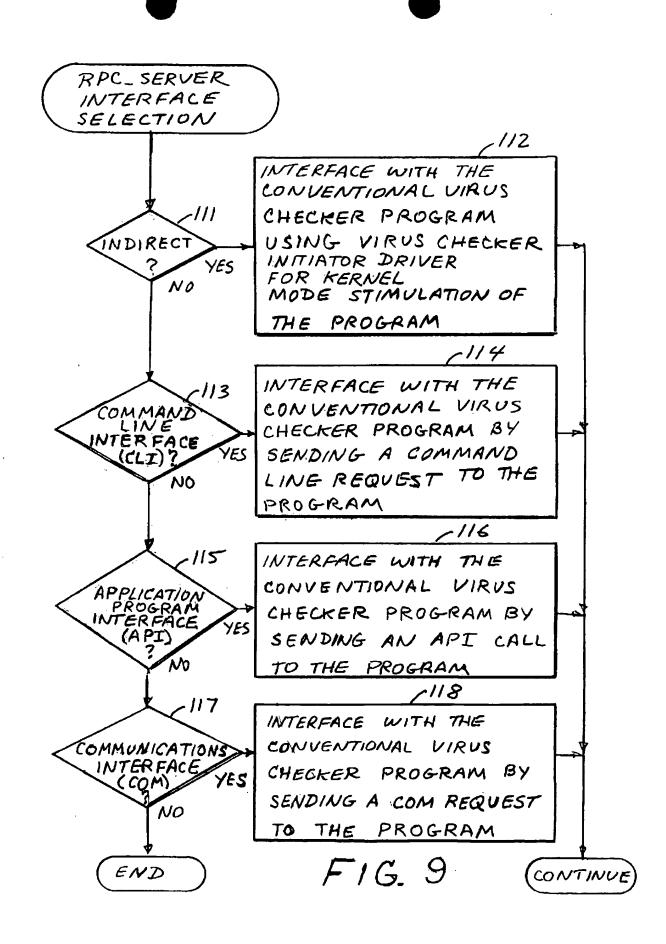
VIRUS CHECKER
INITIATOR DRIVER RETURNS
THE RESPONSE TO THE
RPC SERVER FOR
VIRUS CHECKING

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THE RPC SERVER
FOR VIRUS
CHECKING RETURNS
THE RESPONSE TO
THE RPC CLIENT
FOR VIRUS
CHECKING

END

F1G, 8



SYSTEM SETUP

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LOAD EACH NT FILE SERVER
WITH THE RPC SERVER
FOR VIRUS CHECKING
AND WITH THE VIRUS
CHECKER INITIATOR DRIVER

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LOAD EACH DATA MOVER
OF THE NETWORK FILE
SERVER WITH THE RPC
CLIENT FOR YIRUS
CHECKING

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MIGRATE FILES INTO THE NETWORK FILE SERVER; E.G., FROM THE NT FILE SERVERS

-124

MARK FILES AS SHARED WITH THE NT FILE SERVERS, AND NOT CHECKED

-125

BEGIN BACKGROUND TASK
OF VIRUS CHECKING
OF THE FILES MARKED AS
UNCHECKED, WHILE GIVING
NETWORK CLIENTS PRIORITY
ACCESS

F/G.10

ENP